

## **Quarterly Report**

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Prepared for: United States Department of Transportation Pipeline and Hazardous Materials Safety Administration Office of Pipeline Safety

Project Title: “Consolidated Research and Development Program to Assess the Structural Significance of Pipeline Corrosion”

### **Public Page**

#### **Summary of Progress – Project 153H**

Stress versus strain data for grade X80 and X100 pipeline material has been sourced from public domain sources, e.g. from recent ASME International Pipeline Conference papers and from related PRCI Materials Technical Committee funded projects. Round bar tensile test results have been obtained for 32” and 48” diameter grade X80 parent material. Similarly, round bar tensile test data for 36” diameter grade X100 material has been obtained. In each case the yield and ultimate tensile strength was confirmed to meet specified minimum values. All materials data has been converted into true stress versus true strain form as required for non-linear finite element analysis.

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